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What is claimed is

1. A fishing reel comprising:  
a reel body;  
a spool rotatably supported by the reel body;  
5 a revolutions counter detector for detecting number  
of revolutions of the spool;  
a line measurement device for measuring line length  
based on the result detected by the revolutions counter  
detector;  
10 an informing device for informing an angler about  
fishing information;  
a receiver for receiving a signal which includes  
the fishing information and is transmitted from a  
transmitter; and  
15 a controller for controlling the informing device  
to inform the angler about the fishing information from  
the receiver.

2. The fishing reel according to claim 1, wherein the  
20 informing device is a display for displaying the line  
length measured by the line measurement device, and the  
controller displays the fishing information on the  
display.

25 3. The fishing reel according to claim 1, wherein the

fishing information transmitted from the transmitter is data processed in at least one of a fishfinder and a GPS installed in a boat.

5 4. The fishing reel according to claim 1, wherein the fishing information transmitted from the transmitter is data which does not processed in at least one of a fishfinder and a GPS installed in a boat, and the controller processes the data transmitted from the transmitter and  
10 sends the processed data to the informing device.

5. The fishing reel according to claim 1, wherein the signal from the transmitter to the receiver is transmitted by <sup>one of a</sup> radio <sup>and</sup> or a wire.

15 6. A fishing reel for winding a fishline on a spool, comprising:

a receiver for receiving fishing information from an outside of the fishing reel;

20 an informing device for informing an angler about the fishing information; and

a computer for receiving the fishing information from the receiver and sending the received fishing information to the informing device.

7. The fishing reel according to claim 6, wherein the computer processes the fishing information.

8. The fishing reel according to claim 6, the fishing information is transmitted from a transmitter.

9. The fishing reel according to claim 8, the receiver communicates to the transmitter through <sup>one of</sup> a wire <sup>and</sup> or a radio.

10. The fishing reel according to claim 6, wherein the computer controls a motor for rotating the spool based on the fishing information.

11. The fishing reel according to claim 6 further comprising:

a revolutions counter detector for detecting number of revolutions of the spool; and

a line measurement device for measuring line length based on the result detected by the revolutions counter detector.

12. The fishing reel according to claim 6, wherein the fishing information represents at least one of depth of water, water temperature, a tidal current, ebb and flow of the sea, a present position, a fishfinder image, fishing

tackle information and fishing technique information.

13. The fishing reel according to claim 6, wherein the fishing information is obtained by at least one of a fishfinder, a GPS, radio information, and information through Internet.

14. The fishing reel according to claim 6, wherein the informing device includes at least one of a display and a speaker.

15. A fishing system comprising:

a transmitter for transmitting fishing information;

and

a fishing reel for winding a fishline on a spool, including,

a receiver for receiving the fishing information from the transmitter, and

an informing device for informing an angler about the fishing information from the receiver.

16. The fishing system according to claim 15, wherein the transmitter is installed in a boat and is connected to at least one of a fishfinder and GPS.

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17. The fishing system according to claim 15, wherein the receiver communicates to the transmitter through <sup>one of</sup> a wire <sup>and</sup> or a radio.

5 18. The fishing system according to claim 15, wherein the fishing information represents at least one of depth of water, water temperature, a tidal current, ebb and flow of the sea, a present position, a fishfinder image, fishing tackle information and fishing technique  
10 information.

19. The fishing system according to claim 15, wherein the transmitter transmits the fishing information to a plurality of the fishing reels.

15 20. The fishing reel according to claim 15, wherein the transmitter is one of a cellular phone and a radio system.

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